NETIMPRESS air

CAN Flash Programmer & Logger

Hardware Manual

DTS INSIGHT CORPORATION

Publication History

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INTRODUCTION

NETIMPRESS air Hardware Manual (hereinafter "manual") describes specification of hardware of NETIMIRESS air series products and the precautions.

There are two manuals besides this manual for NETIMPRESS air series products (hereinafter NETIMPRESS air). – "NETIMPRESS air Operation Manual (For Programmer)" and “NETIMPRESS air Operation Manual (For Logger)”, which describe how to use NETIPRESS air. Please read those manuals along with this manual.

The wording "Programming" in this manual means writing data into a target microcomputer flash memory or an external flash memory connected to the target microcomputer.

Meaning of Icons

The following table describes the meaning of icons used in this guide.

	It indicates very important information. Extra care should be taken when operating NETIMPRESS air series products.
	It indicates useful information and tips for operation.
	It indicates references. Please see the referenced chapter of this guide and other manuals, if you needed.

Ensuring Safety Use of NETIMPRESS air

In order to ensure the proper and safety use of NETIMPRESS air, please be sure to follow the safety caution mentioned below as operating NETIMPRESS air. DTS INSIGHT CORPORATION has no responsibility or guarantee for any injuries which occur as a result of the violation of these safety caution and warnings.

■ Following safety-related symbols are used on NETIMPRESS air and its instruction manual for a safety use.

⚠	It indicates not only that there is a danger to humans as well as to the equipment, but also that it is necessary to refer to the instruction manual.
⏚	It indicates a safety ground terminal. As this terminal is on the main unit, please be sure to connect this terminal to the ground before operating.
WARNING	In order to avoid the risk of death or serious injury which may occur as a result of an incorrect use.
CAUTION	In order to avoid the risk of minor injury or material damage which may occur as a result of an incorrect use.

■ To avoid the risk of death or serious injury to users, such as electrocution or any other accidents, as well as the risk of damage to NETIMPRESS air, please follow the warnings mentioned below.

⚠ **WARNING**

- **Use in Chemical Gases**

Do not use NETIMPRESS air in an environment where are combustible or explosive gases or steam.

Using NETIMPRESS air in such environment is extremely dangerous.

- **Power**

Confirm that the supply-side voltage matches to the rated power supply voltage for a power supply pack of NETIMPRESS air.

Use the USB cable provided with NETIMPRESS air to ensure safe operation.

- **Do not remove the case**

Only qualified service engineers should remove the case of NETIMPRESS air because of the high voltage.

- **Action to be taken if abnormality is found**

If any failure is found, such as smoke or odor, disconnect the USB cable and target probe and then turn off the power of main unit. Contact the support center of DTS INSIGHT CORPORATION.

■NETIMPRESS air is an electronic device which consists of high-precision electronic components. Please be sure to understand and follow the caution listed below in order to avoid any accidents and as well as to make the most of your NETIMPRESS air.

CAUTION

・Power up Sequence

There are two ways to supply power to NETIMPRESS air.

Make sure to follow the switch ON/OFF order of each way of a host computer, NETIMPRESS air, and a target system.

The Switch ON / Switch OFF sequence should be followed in order to avoid major damages to a target system and NETIMPRESS air itself.

<When supplying power from the target system>

<Power up Sequence>

1. Host computer
2. Target system
3. NETIMPRESS air

<Power down Sequence>

1. NETIMPRESS air
2. Target system
3. Host computer

<When using a USB cable>

<Power up Sequence>

1. Host computer
2. Target system
3. NETIMPRESS air

<Power down Sequence>

1. NETIMPRESS air
2. Target system
3. Host computer

- **Connecting the Probe and Connector**

All probes and cables are designed to prevent an incorrect connection. Never force them to plug in nor unplug. Confirm the position and direction.

- **Disassembling NETIMPRESS air**

Since NETIMPRESS air contains printed circuit boards with minute patterns, never remove screws or disassemble NETIMPRESS air.

If the product is disassembled or modified by the user, it will not be covered under the warranty or support services.

- **Neutralization**

Make sure to neutralize the charge before operating NETIMPRESS air.

- **Interference of Wireless LAN (For /W model only)**

NETIMPRESS air uses 2.4GHz band. This band is also used by industrial, scientific, or medical equipment, like microwave etc. It is also used by the premises radio station for mobile identification, the specific low-power radio station, and the amateur radio station.

Before using NETIMPRESS air, make sure that those radio stations are not placed near NETIMPRESS air.

If NETIMPRESS air causes the radio disturbance of the premises radio station for mobile identification, change the band immediately, or stop using the radio wave.

If you place the wireless devices close to each other, the baud rate will be slow due to mutual interference. It is recommended that keep 1m distance between the stations, 3m distance between the access point and station, and keep 3m distance between the access points.

Waste Electrical and Electronic Equipment Directive (2012/19/EU)

(Waste Electrical and Electronic Equipment Directive (WEEE) is for EU countries)

NETIMPRESS air complies with WEEE Directive (2012/19/EU). Electric/electronic products carrying this mark must be disposed of separately from normal household wastes.

Product category:

With reference to the equipment types in the WEEE directive Annex 1, this product is classified as a “Monitoring and Control instrumentation” product. When disposing products in the EU, contact your local distributor. Do not dispose in domestic household waste.

IMPORTANT

Thank you for your purchasing “NETIMPRESS air”.

To make the most of NETIMPRESS air, please read and understand this manual and other operation manuals before use. After reading this manual, please keep it for the further reference whenever required. Please ensure that NETIMPRESS air should be used only by persons who have read and understood the manuals. We strongly recommend that the first-time users receive a proper instruction from those who have a good knowledge of NETIMPRESS air.

NETIMPRESS air refers to NETIMPRESS air main unit and other related products manufactured by DTS INSIGHT CORPORATION. A target system and the host computer are strictly excluded.

NETIMPRESS air is an electronic device which consists of high-precision electronic components. In order to make the most of NETIMPRESS air and also to prevent any accidents, please follow the caution listed below.

A certain repair fee is required regarding the equipment damages resulted from an incorrect use or connection, etc. Please aware that it may require a few months for repairs.

Regarding software products and manuals, DTS INSIGHT CORPORATION guarantees only if there are any damages of media provided by DTS INSIGHT CORPORATION or manual defects.

If proved that there are failures or that there are problems apart from those listed above, the action will be taken based on the maintenance agreement.

⚠ WARNING

Before Switching ON the power supply, be sure to confirm whether the direction of Pin 1 in the probe tip matches to Pin 1 Socket in a target system.

An incorrect connection may result in an explosion or ignition of NETIMPRESS air or a target system.

CAUTION

As particular parts of electronic circuits in the probe and cable tip are exposed, NETIMPRESS air should be used only in environments where are protected from a static electricity.

Using NETIMPRESS air in such environment as without static electric protection may result in destroying NETIMPRESS air or a target system.

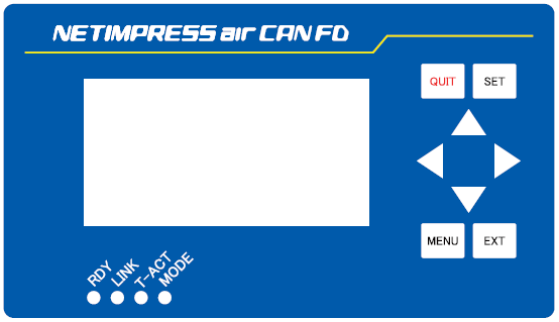
Confirming the Items Included in the Package

When you have purchased NETIMPRESS air, the items shown below are included in the box.

Target probe (Optional), trigger cable (Optional), definition license (Optional), and SD card (Optional) vary depending on the system environment. Please purchase it separately in accordance with your system environment. For details, please contact with your dealer or the sales department of DTS INSIGHT CORPORATION.

NETIMPRESS air Connect (PC software) can be downloaded from our website.

License sheet is necessary for downloading a Micom-pack, definition file, and definition license from our website. License sheet is provided when you purchase a definition license.



Main unit: NETIMPRESS air x1

USB cable x1

After unpacking, save the package box contained the NETIMPRESS air because it will be used at the time of maintenance service for the equipment.

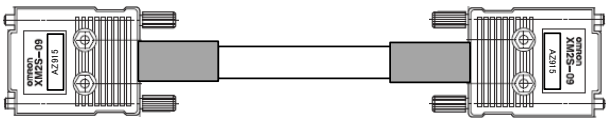
Though extra special care is taken in packing, if you find any defects or other abnormality in the included items, do not operate the equipment but make contact with your dealer or the sales department of DTS INSIGHT CORPORATION.

Before operating, please make sure that the products you received are same as the order.

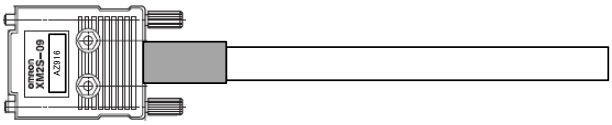
The following table shows model name, SUFFIX (Specification code), and descriptions.

MODEL	Specification code	Description
AF932		CAN 2ch / K-Line 1CH / USB2.0
Option		
Wireless LAN interface	/W	IEEE802.11b,g,n(2.4GHz)

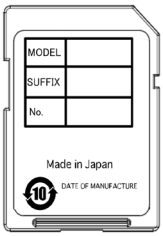
Optional Items



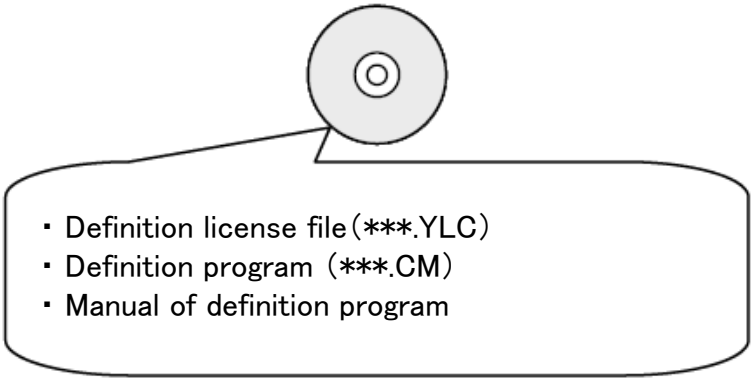
Target probe: AZ915



Target probe: AZ916



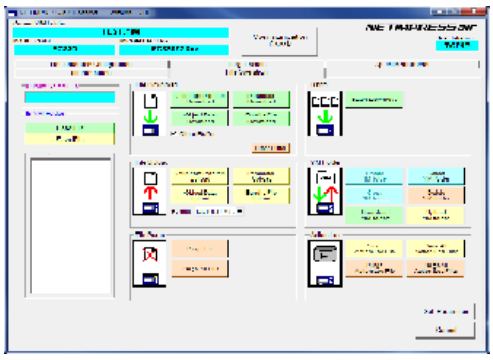
SD card for NETIMPRESS air: FX900



Definition Program

Web Download

air Connect：AZ990



Micom-pack

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Contents

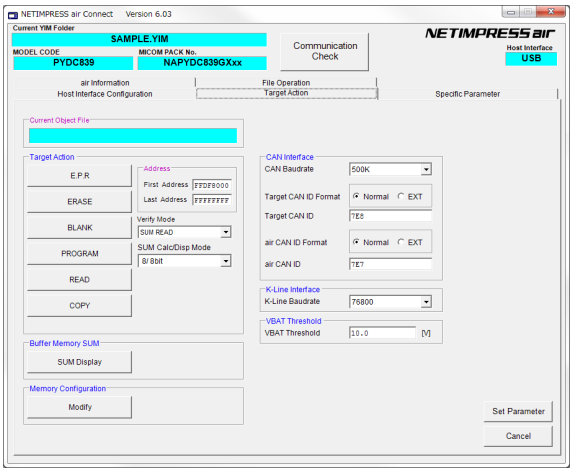
1. Overview and Features

This chapter describes the composition of programming environment, and overview of NETIMPRESS air series products.

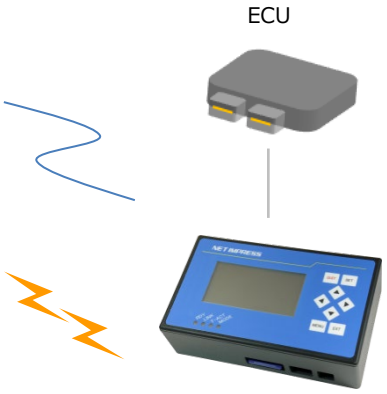
1.1. Overview of NETIMPRESS air series

NETIMPRESS air is a compact CAN Flash Programmer & Logger tool which you can use for ECU development, evaluation, and field services. Since NETIMPRESS air is equipped with USB, you can run and control it via USB of PC. Moreover WLAN model (/W model) is equipped with Wireless LAN; therefore you can operate it in wireless environment.

NETIMPRESS air can operate by an electrical power (12V) provided by in-car battery. Therefore you can do a programming and logging by using NETIMPRESS air as a stand-alone operation (without PC).



NETIMPRESS air Connect



NETIMPRESS air

By adding firmware (definition file) for programming each microcomputer into the SD card for NETIMPRESS air main unit, it can support various devices.

It can also save the logging data in the SD card by adding a license for logging.

If you install AZ990 (Programming software) and AZ992 (Logging software) on PC, you can set programming/logging conditions via USB or WLAN.

Setting conditions are stored in the SD card. Therefore you can use it as a stand-alone (without PC).

SD card for NTEIMPRESS air	● SD card which contains programming firmware data for microcomputer. Programming for each device can be supported by inserting the SD card into NETIMPRESS air. ● You can expand the supported communication protocols by adding a license. ● SD card is empty with factory setting. Please make sure to add a license before operation. ➥ For how to add a license, see the NETIMPRESS air Operation Manual. ● For MCU which is same series as the MCU supported by one license, it can be supported by adding a MICOM-pack provided by DTS INSIGHT CORPORATION. ➥ For details of Micom-pack, see the NETIMPRESS air Operation Manual. ● Make sure to use SD card provided by DTS INSIGHT CORPORATION. If you use other SD cards, it may result in failure. (Commercial-release SD card is not available)

1.2. Communication environments

USB can be used for communication between a host PC and NETIMPRESS air. For /W model, wireless LAN is also available.

Specific driver is necessary for USB.

For wireless LAN, an access point or a host PC connectable by wireless LAN is necessary.

2. General Precautions

(1) Do not use NETIMPRESS air in dusty areas, where there is direct sunlight for a long time or corrosive gas is generated.

(2) Use NETIMPRESS air in environments with temperature between -20 to 45C (for CAN mode, it will be -20 to 65C) and humidity between 20% to 80%.

(3) To insert or remove the SD card, be sure to turn off the power of NETIMPRESS air.

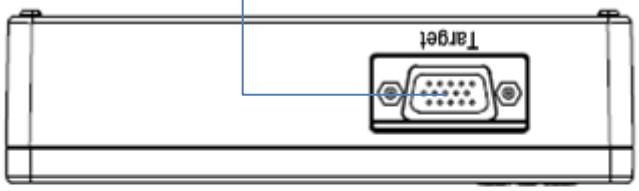
(4) Connect NETIMPRESS air directly to the USB port on PC. If it is connected with USB hub in between, electric power shortage will occur, and NETIMPRESS air may not operate correctly.

3. Name and Function of the Components

3.1. Name of Components

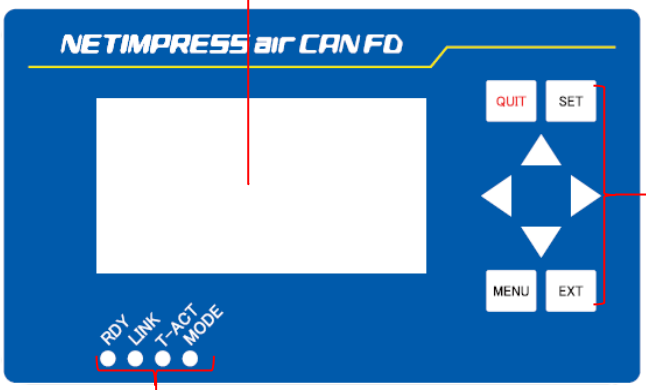
TARGET connector

This is the connector to connect the probe that connects with a target system.



LCD

Displays various information, such as model name of definition program and address etc.



Key

This is used when operating NETIMPRESS air as a stand-alone.

LED

Displays the status of NETIMPRESS air.

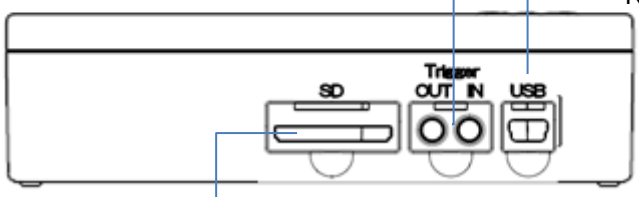
USB connector (with cover)

This is a connector to connect NETIMPRESS air to a host PC by USB (Mini-B).

Make sure to use the USB cable provided with NETIMPRESS air.

Trigger for other tools (with cover)

This is a connector for trigger input/output for other devices and NETIMPRESS air.



SD card slot (With a cover)

Slot for inserting the SD card

3.2. Function of Components

- Function of each key when operating NETIMPRESS air as a stand-alone

8 keys are used when using NETIMPRESS air as a stand- alone.

Following table describes the function of each key and the behavior.

QUIT	● QUIT button is used when you want to stop the operation. ● After the QUIT, it backs to the TOP window.
SET	● SET button is used when you want to set and execute the settings.
MENU	● MENU button is used when you want to display the TOP window.
EXT	● EXT is for function enhancement. This is for future use.
▲ (Up)	● Arrow key is used when you want to scroll the mode setting menu or the command setting menu. ● This is also used when selecting MENU.
▼ (Down)	● Arrow key is used when you want to scroll the mode setting menu or the command setting menu. ● This is also used when selecting MENU.
◂ (Left)	● This is used when selecting MENU.
▸ (Right)	● This is used when selecting MENU.

- LED Status

Operation status and the results are shown in LED.

T-ACT	● Displays the execution results of target action. (*) Green light is on: Target action ends normally. Red light is on: Target action ends abnormally.
RDY	● Displays the status of operation. Green light is on: Setting of the main unit ends normally/Waiting for the command. Orange light is on: Executing the settings of main unit. Red light is on: Setting of the main unit ends abnormally.
LINK	● Displays the connection status of host PC. Green light is on: USB connection Orange light is on: Wireless LAN connection Light is off: Not connected
MODE	● Displays the mode of operation Green light is on: Normal operation mode Orange light is on: CAN operation mode Red light is on: Reserved

(*) Intended communication operation with the target system

4. Specifications

4.1. General Specification

Item	Specifications	
Storage environment	Ambient temperature	-30 to 80C
	Ambient humidity	20 to 80% RH (No condensation)
Operation environment	Ambient temperature	Normal operation mode: -20 to 45C CAN operation mode: -20 to 65C
	Ambient humidity	20 to 80% RH (No condensation)
Power Supply	VBAT Power feeding	DC 8 to 16V
	USB Power feeding	DC 5V±5%
Physical dimensions	133(W)×78(D) ×37(H)mm	
Weight	About 240g	
Installation	Hand-hold, or laid in the horizontal or vertical. Do not stack	
Consumed power	For VBAT Power feeding	Less than 5W
	For USB Power feeding	Less than 2.5W
	For low power consumption mode	Less than 30mA (For VBAT power feeding)
Calendar	Error per year	±15 minutes/year

4.2. Host interface

Item	Specifications	
USB port	Connector type	Type B (Mini-B, Receptacle)
	Compliance	USB2.0
	Max. data transfer rate	Hi-Speed（480Mbps）
	Number of port	1
Wireless LAN	Compliance	IEEE802.11b/g/n(2.4GHz)
(/W option)	Communication method	Infrastructure [Default]
		Ad hoc
	Security	None [Default]
		WEP64, WEP128
		WPA-PSK(TKIP), WPA2-PSK(AES)
	Number of antenna	1
	Operating condition	Specific power has to be input to VBAT pin

Make sure to use USB cable provided with NETIMPRESS air.

4.3. Storage

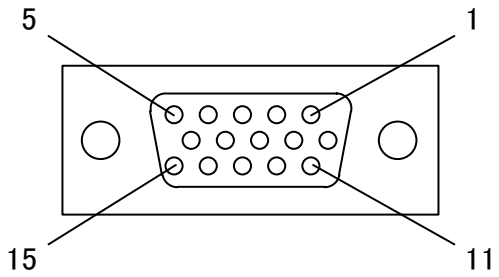
Item	Specifications	
SD card	Capacity	SDHC
	Form	Full-size SD
	Number of port	1

Make sure to use SD card provided by DTS INSIGHT CORPORATION.

4.4. Target Interface

Item	Specifications	
Target connector	Type	Mini-D-Sub 15 pin Female
	Lock screw	M2.6
	Number of port	1
User power (VBAT)	Available voltage range	8 to 16V
	This is used as a power for driving NETIMPRESS air.	
	Accuracy of monitoring of power	±5%
CAN	Baud rate	125Kbps to 8Mbps (CAN FD)
	Number of port	2
K-LINE	Max. input voltage	VBAT+0.5V
	Min. input voltage	-0.5V
	Number of port	1
	Operating condition	Specific power has to be input to VBAT pin
Trigger	Max. input voltage	VBAT+0.5V
	Min. input voltage	-0.5V
	Input "H" level V_{IH}(min)	0.8×VBAT
	Input "L" level V_{IL}(max)	0.2×VBAT
	Number of port	1
	Operating condition	Specific power has to be input to VBAT pin

- **Pin assignment**



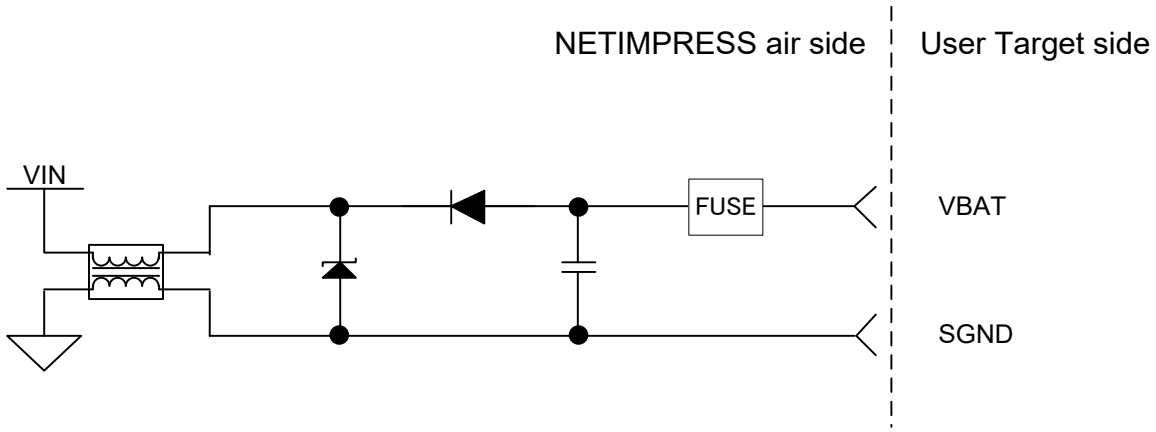
Connector pin arrangement (mated side view)

- **Signal Table**

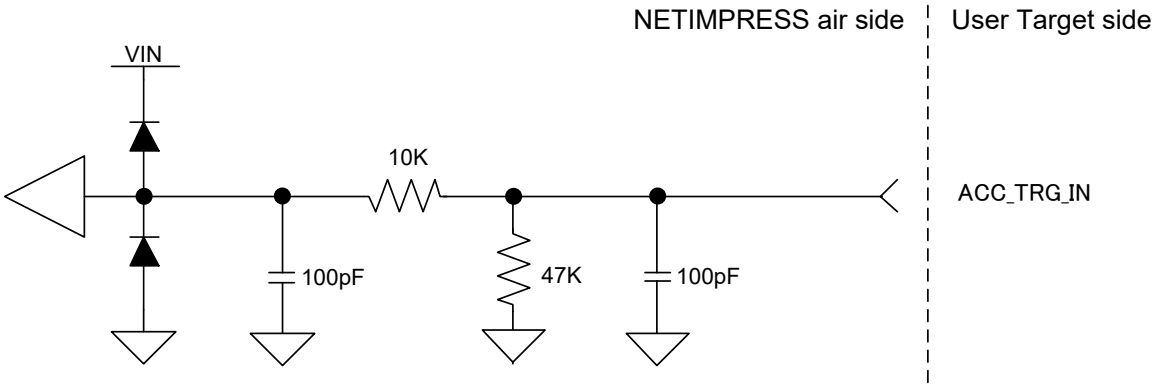
pin No	Signal Name	definition	I/O	Type
1	RESERVED	Reserved signal line. Do not connect this line.	-	
2	RESERVED	Reserved signal line. Do not connect this line.	-	
3	VBAT	User power input. Power for driving NETIMPRESS air	I	A
4	RESERVED	Reserved signal line. Do not connect this line.	-	
5	RESERVED	Reserved signal line. Do not connect this line.	-	
6	ACC_TRG_IN	ACC trigger signal (VBAT level)	I	B
7	RESERVED	Reserved signal line. Do not connect this line.	-	
8	RESERVED	Reserved signal line. Do not connect this line.	-	
9	SBD	I/O signal of K-LINE communication (VBAT level)	I/O	C
10	SGND	Signal GND	-	
11	CANH1	CAN_High for CAN communication (ch1)	I/O	D
12	CANL1	CAN_Low for CAN communication (ch1)	I/O	D
13	RESERVED	Reserved signal line. Do not connect this line.	-	
14	CANH2	CAN_High for CAN communication (ch2)	I/O	D
15	CANL2	CAN_Low for CAN communication (ch2)	I/O	D

- **Interface Circuit Type**

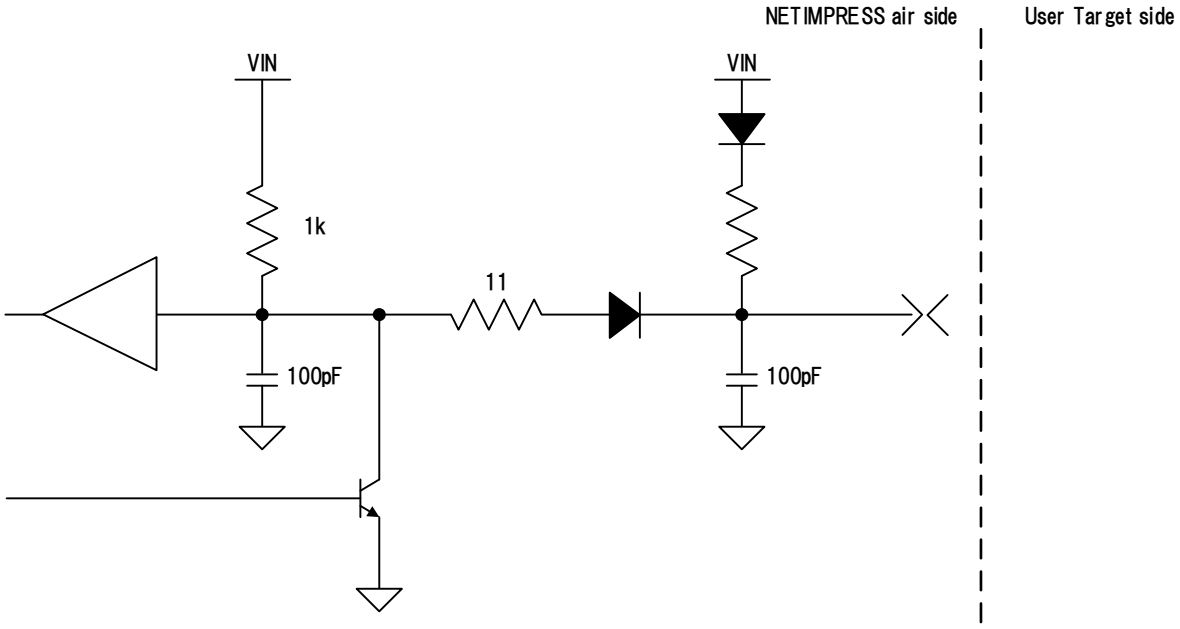
[Type A]



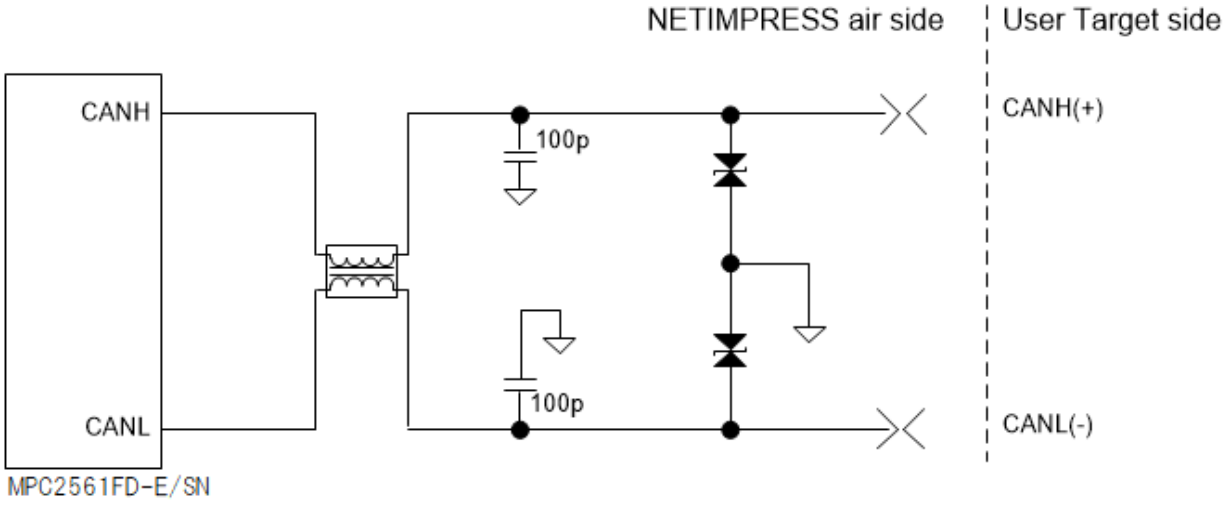
[Type B]



[Type C]


NETIMPRESS air side
User Target side
VIN
VIN
1k
11
100pF
100pF

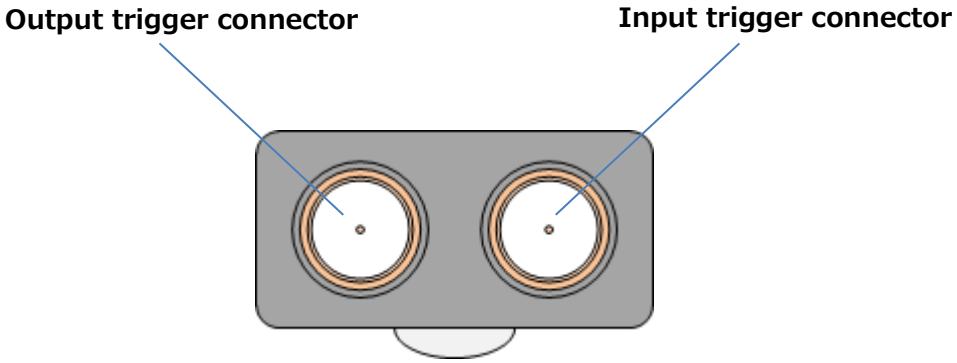
[Type D]


NETIMPRESS air side
User Target side
CANH
CANL
100p
100p
CANH(+)
CANL(-)
MPC2561FD-E/SN

4.5. Interface of trigger for other tools

Item	Specifications		
Input	Type	MMCX connector	
	Available input voltage range	0 to 5V	
	DC Characteristics	VIH(Min)=2V	VIL(Max)=0.8V
	Number of port	1	
Output	Type	MMCX connector	
	Output voltage range	0 to 3.3V	
	DC Characteristics	VOH(Min)=2.35V	VOL(Max)=0.7V
	Number of port	1	

- **Connector assignment**



- **Signal Table**

Input trigger connector

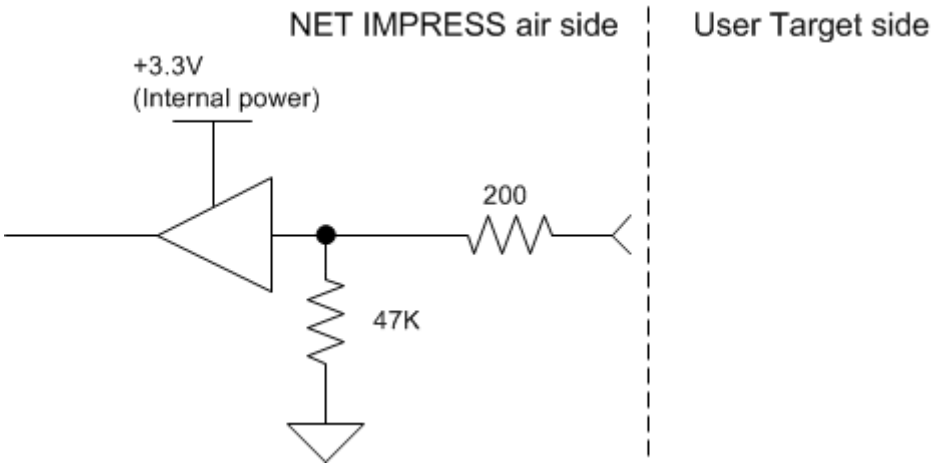
pin No	Signal Name	definition	I/O	Type
Center	TGR_IN	Trigger signal input pin	I	A
Shell	SGND	Signal GND	-	-

Output trigger connector

pin No	Signal Name	definition	I/O	Type
Center	TGR_OUT	Trigger signal output pin	O	B
Shell	SGND	Signal GND	-	-

- **Interface Circuit Type**

[Type A]



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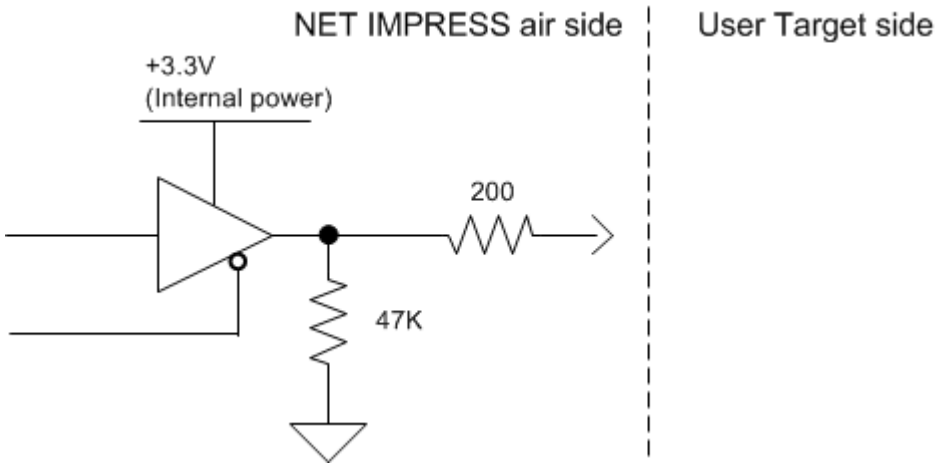


4.6. Conformity standards

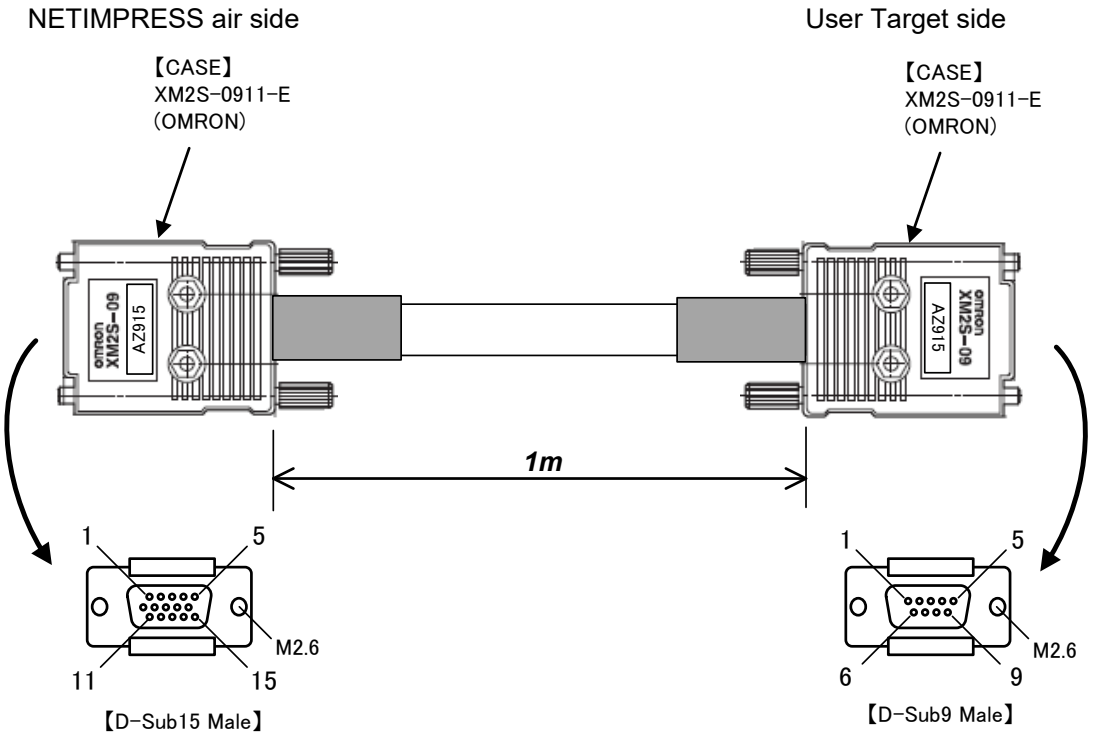
Item	Specifications
Safety standard	Conformity standards EN61010-1
Emission	Conformity standards EN61326-1 classB ETSI EN 301 489-1 ETSI EN 301 489-17
Immunity	Conformity standards EN61326-1 Table2 (For use in industrial locations) ETSI EN 301 489-1 ETSI EN 301 489-17
Wireless	Conformity standards ETSI EN 300 328
RoHS	Conformity standards EN 50581: 2012

5. Accessory (Optional)

Following table shows optional accessories. For inquiry for accessories, please contact you distributor or DTS INSIGHT CORPORATION.

Item	Model name	Notes
Target Probe	AZ915	Target system side: D-Sub9
	AZ916	Target system side: Untreated
Trigger cable	AZ905	Coaxial connector on one side
	AZ906	Crocodile clip on one side

5.1. AZ915



AZ915 : NETIMPRESS air side

Standard Signal Pin Assign

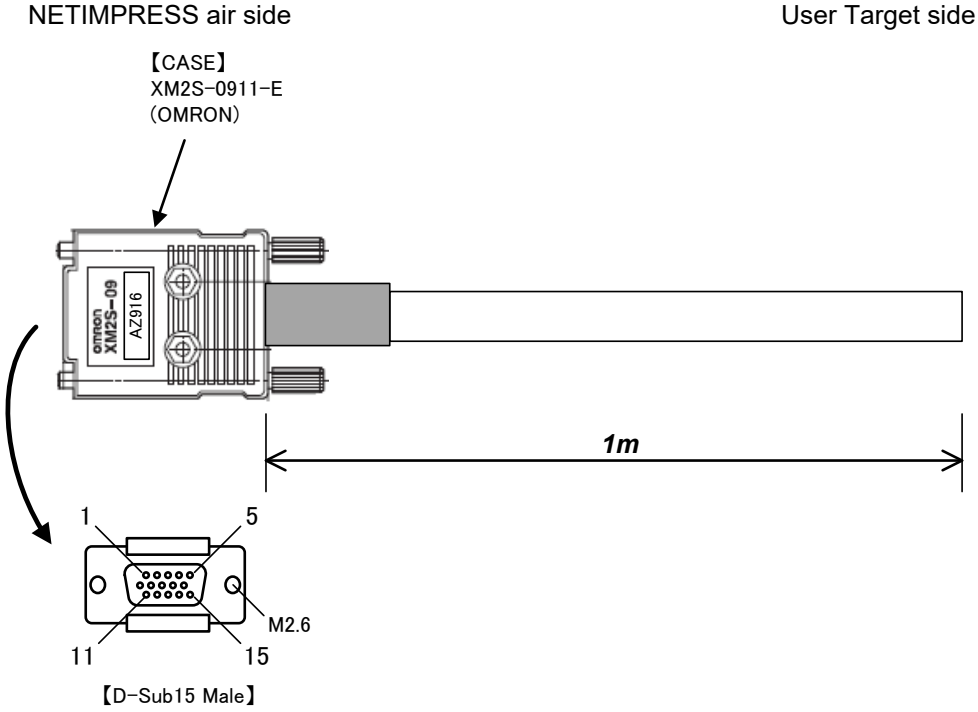
pin No	NETIMPRESS air Standard Signal Name
1	RESERVED
2	RESERVED
3	VBAT
4	RESERVED
5	RESERVED
6	ACC_TRG_IN
7	RESERVED
8	RESERVED
9	SBD
10	SGND
11	CANH1
12	CANL1
13	RESERVED
14	CANH2
15	CANL2

AZ915 : Target side

Standard Signal Pin Assign

pin No	NETIMPRESS air Standard Signal Name
1	ACC_TRG_IN
2	CANL1
3	SGND
4	OPEN
5	OPEN
6	OPEN
7	CANH1
8	OPEN
9	VBAT

5.2. AZ916

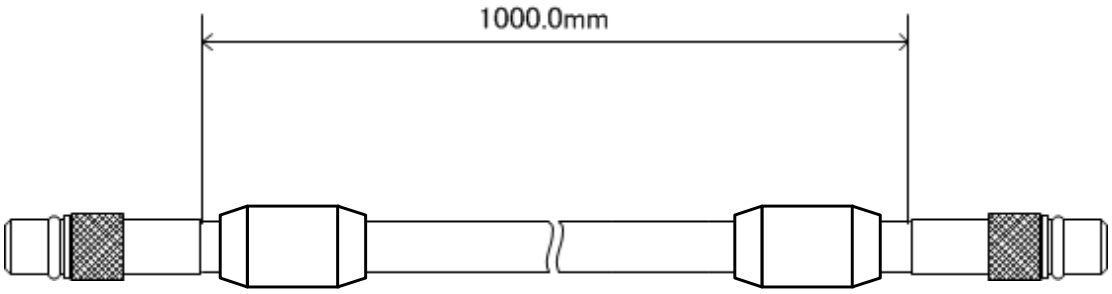


AZ916 : NETIMPRESS air side

Standard Signal Pin Assign

pin No	NETIMPRESS air Standard Signal Name	Insulator Color	Dot Mark
1	RESERVED	Orange	Black ■
2	RESERVED	Orange	RED ■
3	VBAT	Light Bule	Black ■
4	RESERVED	Gray	Black ■
5	RESERVED	Gray	RED ■
6	ACC_TRG_IN	Pink	Black ■
7	RESERVED	Light Bule	Black ■■
8	RESERVED	Light Bule	RED ■■
9	SBD	Pink	Black ■■
10	SGND	Light Bule	RED ■
11	CANH1	Light Green	Black ■
12	CANL1	Light Green	RED ■
13	RESERVED	Pink	RED ■
14	CANH2	Light Green	Black ■■
15	CANL2	Light Green	RED ■

5.3. AZ905



Make sure to loop the cable around the ferrite core (supplied with main unit).

AZ905 : NETIMPRESS air side

Standard Signal Pin Assign

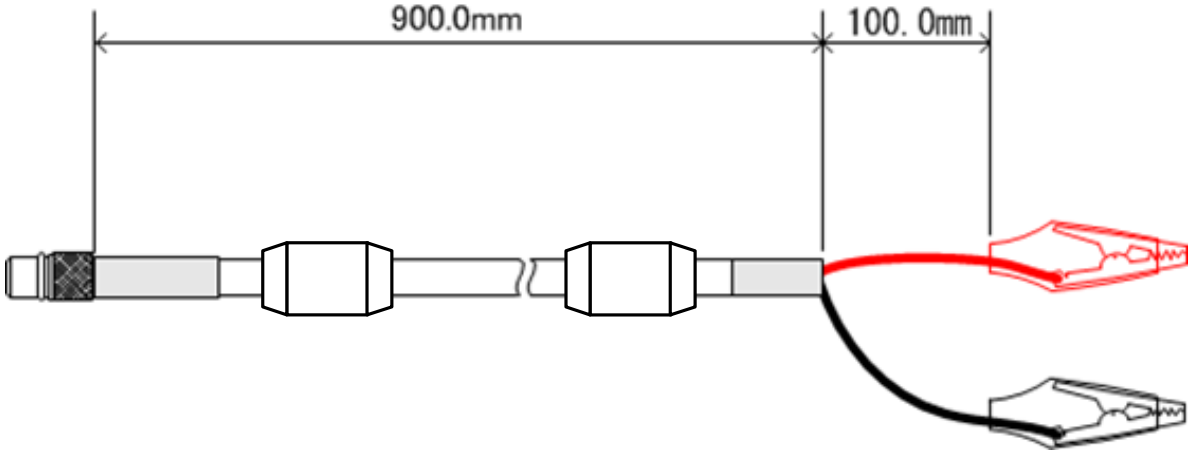
pin No	NETIMPRESS air Standard Signal Name
Center	TGR_IN/TRG_OUT
Shell	SGND

AZ905 : Target side

Standard Signal Pin Assign

pin No	NETIMPRESS air Standard Signal Name
Center	TGR_IN/TRG_OUT
Shell	SGND

5.4. AZ906



Make sure to loop the cable around the ferrite core (supplied with main unit).

AZ906 : NETIMPRESS air side

Standard Signal Pin Assign

pin No	NETIMPRESS air Standard Signal Name
Center	TGR_IN/TRG_OUT
Shell	SGND

AZ906 : Target side

Standard Signal Pin Assign

pin No	NETIMPRESS air Standard Signal Name
RED	TGR_IN/TRG_OUT
BlaCK	SGND

6. FAQ

Main unit does not work

- **Check the connection of USB cable**

If the power is supplied from USB cable, it does not start properly depending on the sequence of power supply. In that case, disconnect the USB cable once, and reconnect it and try to operate it again.

- **Check the SD card**

If the dedicated SD card is broken, NETIMPRESS air may repeat the start-up operation. In that case, remove the damaged SD card and replace it to the normal SD card.

7. Glossary

Glossary (1/2)

Word	Meanings
Micom-pack	Package of a parameter file etc. which supports specific MCU. It can be available from our website. Micom-pack is a self-extraction file (EXE file). You can extract the file by double-clicking it. Contents of Micom-pack: Parameter file (.PRM), manuals (.PDF), Write Control Program (.BTP), and read me file etc.(It may vary depending on the MCU)
Buffer memory	NETIMPRESS air has a buffer memory whose memory map is same as the programming target MCU in the each YIM folder of SD card. Data in this buffer memory is programmed when you programming the flash memory of MCU. NETIMPRESS air has a function to load/save the object file of user in the buffer memory.
Definition program	This is an MCU-specific program to communicate each MCU. This is placed in the each YIM folder in the SD card.
Definition license	To download the definition program onto YIM folder, a definition license has to be added into the SD card for each definition program. This definition license file (.YLC file) can be downloaded if you register your information in our website by referring to the definition license sheet provided when you purchased the definition program. The definition license file can be added onto the dedicated SD card by using AZ990 (NETIMPRESS air Connect).
Object file	This is a program/data file to program a flash of MCU. NETIMPRESS air supports the binary, Intel HEX, and Motorola S format.
Write Control Program	For some flash MCU, there is no program (firmware) to operate it with serial programming mode in the MCU. If you need to use those MCU with NETIMPRESS air, you need to download the Write Control Program onto the MCU by using NETIMPRESS air. For those MCU, boot program is executed when starting up the programmer in writer mode, and the Write Control Program is downloaded at this timing. The Write Control Program (extension .BTP) has to be in the YIM folder in the SD card.

Glossary (2/2)

Word	Meanings
WCP	This is an abbreviation of Write Control Program.
Current file	Current file means a file currently operating. File name of the current file is set when loading the file.
Programming	Programming means to program the target system.
Programming conditions	Programming conditions mean to set up the programming environment.

8. Contact

For inquiry about the specification of NETIMPRESS air, please contact our support center.

For inquiry about the price information or lead time, please contact our sales or your local distributors.

Contact:

NETIMPRESS Support Center:

First Business Headquarters

Business Div. I

Sales Dept.

Sales Engineering Section

E-mail: support-impress@dts-insight.co.jp

Address ：7F Shinjuku MIDWEST Bldg., 4-30-3 Yoyogi, Shibuya-ku, Tokyo, 151-0053, Japan

NETIMPRESS air Hardware Manual

DTS INSIGHT CORPORATION

URL：https://www.dts-insight.co.jp/en/support/support_netimpress_air/

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